

ATM switch fiber optic interface



Overview

To connect an ATM OC-3 network module to the network, insert a fiber-optic cable with one duplex SC connector (see Figure 15) or two simplex SC connectors (see Figure 16) into the ATM interface. Note Some network modules are shipped with a dust plug to protect this. ATM stands for Asynchronous Transfer Mode, is a high-speed, broadband transmission data communication technology based on packet switching, which is used by telcos, long distance carriers, and campus-wide backbone networks to carry integrated data, voice, and video information. Asynchronous. The ATM-25 network module (see Figure 1) provides ATM traffic shaping for use with asymmetric digital subscriber line (ADSL) uplink speeds, and protocol support for permanent virtual circuit (PVC) environments. The network module provides full support for multiprotocol encapsulation over ATM. ATM was developed to meet the needs of the Broadband Integrated Services Digital Network as defined in the late 1980s, and designed to integrate telecommunication networks. It can handle both traditional high-throughput data traffic and real-time, low-latency content such as telephony (voice). The FORE Systems STA-AMOD0249 is an ATM optical network interface module designed for use in FORE Systems ATM switching platforms, such as the ASX-200 / ASX-400 / ASX-1000 series. This module provides OC-3 (STM-1) multimode optical connectivity, operating at 155. The ATM transceiver includes a transmitter, a receiver, and an SC duplex receptacle. All three versions consist.



Article Content

Sep 08, 2025

Asynchronous Transfer Mode

Most ATM networks supporting SPVPs, SPVCs, and SVCs use the Private Network-to-Network Interface (PNNI) protocol to share topology information between switches and select a route through a network.

Jul 15, 2026

ATM Network Modules

Connecting Cisco ATM Network Modules to The Network
ATM-25 Network Module
T3 and E3 Network Modules
ATM OC-3 Network Modules
The ATM-25 network module (see Figure 1) provides ATM traffic shaping for use with asymmetric digital subscriber line (ADSL) uplink speeds, and protocol support for permanent virtual circuit (PVC) environments. The network module provides full support for multiprotocol encapsulation over ATM Adaptive Layer 5 (RFC 1483), classic IP over ATM encapsul...
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Published: May 1, 2008
Wikipedia

Asynchronous Transfer Mode - Wikipedia

Overview
Virtual circuits
Protocol architecture
Traffic engineering
Reference
model
Deployment
Wireless or mobile ATM
Further reading

An ATM network must establish a connection before two parties can send cells to each other. This is called a virtual circuit (VC). It can be a permanent virtual circuit (PVC), which is created administratively on the endpoints, or a switched virtual circuit (SVC), which is created as needed by the communicating parties. SVC creation is managed by signaling, in which the requesting party indicates the address of the receiving party, the type of service requested, and whatever traffic parameters may be applicable to th...

Sep 11, 2025

Asynchronous Transfer Mode (ATM) Switching

An ATM network consists of a set of ATM switches interconnected by point-to-point ATM links or interfaces. ATM switches support two primary types of interfaces: UNI and NNI.

Jun 19, 2026

Upgrading fddi backbones to atm | Lightwave Online

For those seeking a proven, tested, and immediately available solution, there are two choices: an fddi switch or an Asynchronous Transfer Mode (atm) backbone. An fddi switch is a device that...

Oct 01, 2025

Asynchronous Transfer Mode (ATM)

A typical small switch can connect between 16 and 32 computers. To permit data communication at high speed, each connection between a computer and an ATM switch uses a pair of optical fibers.

Apr 21, 2026

Buy FORE Systems STA-AMOD0249 OC-3 ATM Optical Interface ...

FORE Systems STA-AMOD0249 is an OC-3 (STM-1) multimode ATM optical interface module for FORE Systems ASX-series ATM switches, supporting 155.52 Mbps fiber connectivity.

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Asynchronous Transfer Mode (ATM)

Asynchronous Transfer Mode (ATM) can be used as the underlying technology for Fiber Distributed Data Interface (FDDI), Synchronous Optical Network (SONET), and other high-speed ...

Jan 06, 2026

ATM Network Modules

To connect an ATM OC-3 network module to the network, insert a fiber-optic cable with one duplex SC connector (see Figure 15) or two simplex SC connectors (see Figure 16) into the ATM interface.

Jun 25, 2026

Architecture Design of an ATM Switch Based on a High Speed Network

One of the key issues that must be fulfilled to realize BISDN, is to develop high speed and high capacity ATM packet switches. For this, many technical problems must be investigated, such as ...

Jan 02, 2026

ATM Transceivers

The module is suited for use in low-cost, local area and wide area network (LAN/WAN) applications. It can be used as a network-end device interface in workstations, servers and storage devices, and in ...

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